

09/744679

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181 ggcggggcag cctccccggag cagcgcgcg cagagccccg gacaatgggg ccgcggcggc
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1081 ccacgggtctg ttatgtgtct atcattcgat gtcttagctc ttccgcagtt gccaacccga
1141 gcaagaagtc ccgggctttg ttcctgtcag ctgctgtttt ctgcatcttc atcatttgct
1201 tcggacccac aaacgtcctc ctgattgcgc attactcatt ccttctcac acttccacca
1261 cagaggctgc ctactttgcc tacctcctct gtgtctgtgt cagcagcata agctcgtgca
1321 tcgacccctt aattactat tacgcttctt ctgagtggca gaggtacgtc tacagtatct

Fig. 1a

1381	tatgctgcaa	agaaagtcc	gatccagca	gtataacag	cagtgggcag	ttgatggcaa
1441	gtaaaatgga	tacctgctct	agtaacctga	ataacagcat	atacaaaaag	ctgttaactt
1501	aggaaaaggg	actgctggga	ggttaaaaag	aaaagtttat	aaaagtgaat	aacctgagga
1561	ttctattagt	cccacccaa	actttattga	ttcacctcct	aaaacaacag	atgtacgact
1621	tgcatacctg	ctttttatgg	gagctgtcaa	gcatgtattt	ttgtcaatta	ccagaaagat
1681	aacaggacga	gatgacggtg	ttattccaag	ggaatatatgc	caatgctaca	gtaataaatg
1741	aatgtcactt	ctggatatag	ctaggtgaca	tatacatact	tacatgtgtg	tatatgtaga
1801	tgtatgcaca	cacatatatt	atttgcagtg	cagtatagaa	taggcacttt	aaaacactct
1861	ttccccgcac	cccagcaatt	atgaaaataa	tctctgattc	cctgatttaa	tatgcaaaagt
1921	ctaggttggt	agagttagc	cctgaacatt	tcatggtgtt	catcaacagt	gagagactcc
1981	atagtttggg	cttgtagcac	ttttgcaaat	aagtgtattt	tgaattgtt	tgacggcaag
2041	gtttaagtta	ttaagaggta	agacttagta	ctatctgtgc	gtagaagttc	tagtgttttc
2101	aattttaaac	atatccaagt	ttgaattcct	aaaattatgg	aaacagatga	aaagcctctg
2161	ttttgatatg	ggtagtattt	tttacatttt	acacactgta	cacataagcc	aaaactgagc
2221	ataagtcctc	tagtgaatgt	aggctggcct	tcagagtagg	ctattcctga	gagctgcatg
2281	tgtccgcccc	cgatggagga	ctccaggcag	cagacacatg	ccaggggccat	gtcagacaca
2341	gattggccag	aaaccttcct	gctgagcctc	acagcagtga	gactggggcc	actacatttg
2401	ctccatcctc	ctgggattgg	ctgtgaactg	atcatgttta	tgagaaactg	gcaaaagcaga
2461	atgtgatatc	ctaggaggta	atgaccatga	aagacttctc	taccatctt	aaaaacaacg
2521	aaagaaggca	tggacttctg	gatgcccac	cactgggtgt	aaacacatct	agtagttgtt
2581	ctgaaatgtc	agttctgata	tggaagcacc	cattatgcgc	tgtggccact	ccaataggtg
2641	ctgagtgtac	agagtggaaat	aagacagaga	cctgccctca	agagcaaaagt	agatcatgca

Fig. 1a (Cont.)

2701 tagagtgtga tgtatgtgta ataatatgtg ttcacacaaa caaggcctgt cagctaaaga
2761 agtttgaaca tttgggttac tatttcttgt ggttataact taatgaaac aatgcagtac
2821 aggacataata ttttttaaaa taagtctgat ttaattgggc actatttatt tacaatatgtt
2881 ttgctcaata gattgctcaa atcaggtttt cttttaagaa tcaatcatgt cagtctgctt
2941 agaaataaca gaagaaaata gaattgacat tgaatctag gaaattatt ctataatttc
3001 cattactta agacttaatg agactttaaa agcatttttt aacctcctaa gtatcaagta
3061 tagaaaatct tcatggaatt cacaagtaa tttggaaatt aggttgaaac atatctctta
3121 tcttacgaaa aaatggtagc attttaaca aaatagaaag ttgcaaggca aatgtttatt
3181 taaaagagca ggccaggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggctga
3241 ggcgggtgga tcacgaggtc aggagatcga gaccatcctg gctaacacgg tgaaacccgt
3301 ctctactaaa aatgcaaaaa aaattagccg ggcgtggtgg caggcacctg tagtcccagc
3361 tactcgggag gctgaggcag gagactggcg tgaaccagg aggcggacct tgtagtgagc
3421 cgagatcgcg cactgtgct ccagcctggg caacagagca agactccatc tcaaaaaaa

Fig. 1a (Cont.)

MGPRRLLLVAACFSLCGPLLSARTRARRPESKATNATLD
PRSFLLRNPNDKYEPFWEDEEKNESGLTEYRLVSINKSS
PLQKQLPAFISEDASGYLTSSWLTFLVPSVYTGVFVWSL
PLNIMAIVVFILKMKVKKPAVVYMLHLATADVLFVSVLPFK
ISYYFSGSDWQFGSELCRFVTAAFYCNMYASILLMTVISI
DRFLAVWYPMQSLSWRTLGRASFTCLAIWALAIAGVWPL
VLKEQTIQVPGLNITTCHDVLNETLLEGYYAYYFSAFSAV
FFVPLIISTVCYVSIIRCLSSSAVANRSKKSRAFLSAAV
FCIFIICFGPTNVLLIAHYSFLSHTSTTEAAYFAYLLCVCVS
SISSCIDPLIYYYASSECCQRYVYSILCCKESSDPSSYNSS
GQLMASKMDTCSSNLNNSIYKKLLTZ

Fig. 1b

5'-CGCCGAGGGTCGCTTGGACCCCTGATCTTACCCGTGGGCACCCTGGCTCTGCCTGCC
 GCGAAGACCGGCTCCCCGACCCGAGAGTCAAGAGAGAGGGTGAAGCGGAGCAGCCCGA
 GCGGGGCAGCCTCCCGAGCAGCGCCGCGCAGAGCCCGGACAAATGGGGCCGCGCGCGG
 TGCTGCTGGTGGCCGCTGCTTCACTGTGCGGGCCGCTGTGTCTGCCCCGACCCGGG
 CCCGAGGCCAGAAATCAAAAGCAACAAATGCCACCTTAGATCCCCGGTCATTTCTTCTCA
 GGAACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAATGAAAGTGGGT
 TAACTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAACAACCTTCCTG
 CATTCTCTCAGAGATGCCTCCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCC
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 TGTTCATCCTG-3'

Fig. 2

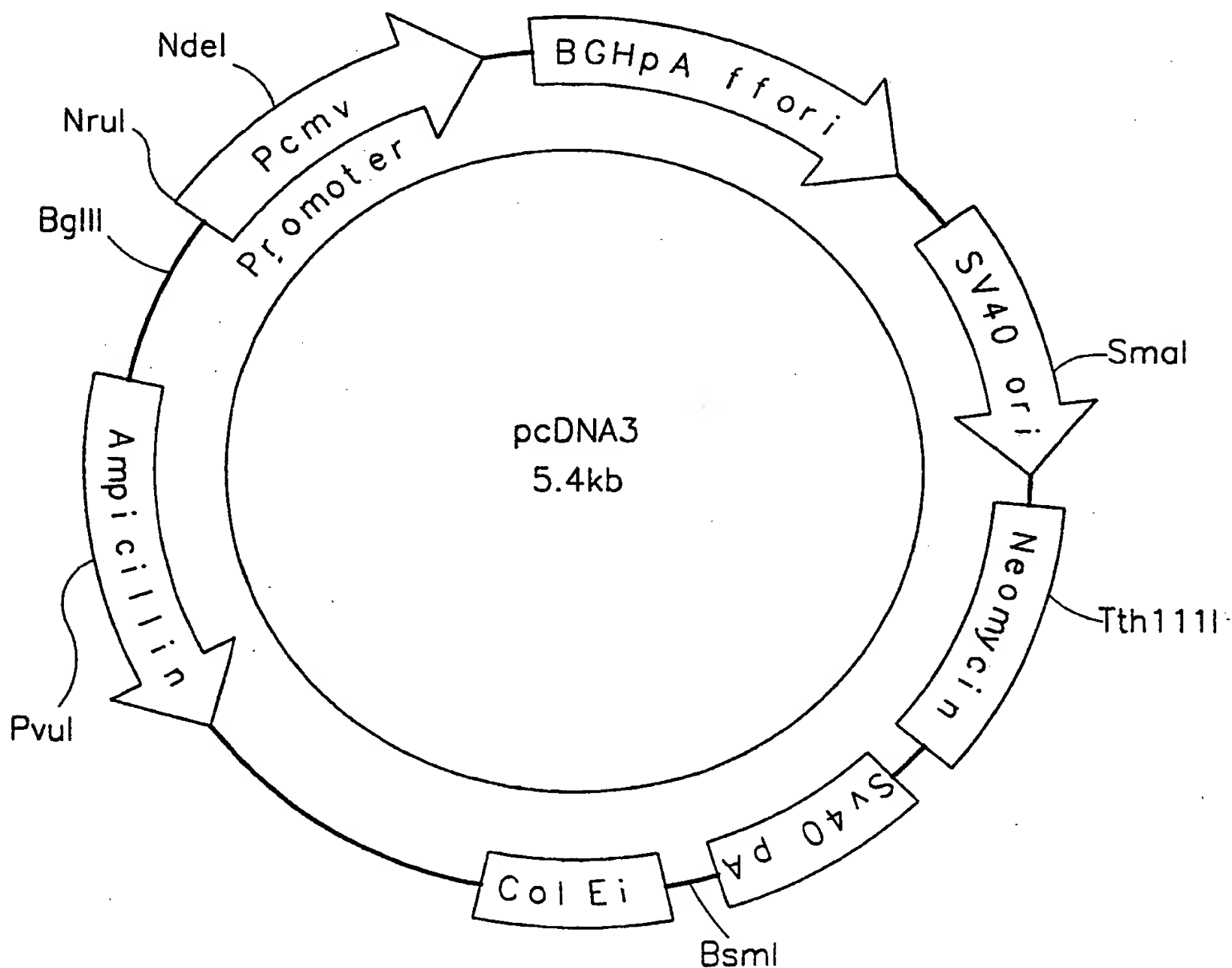
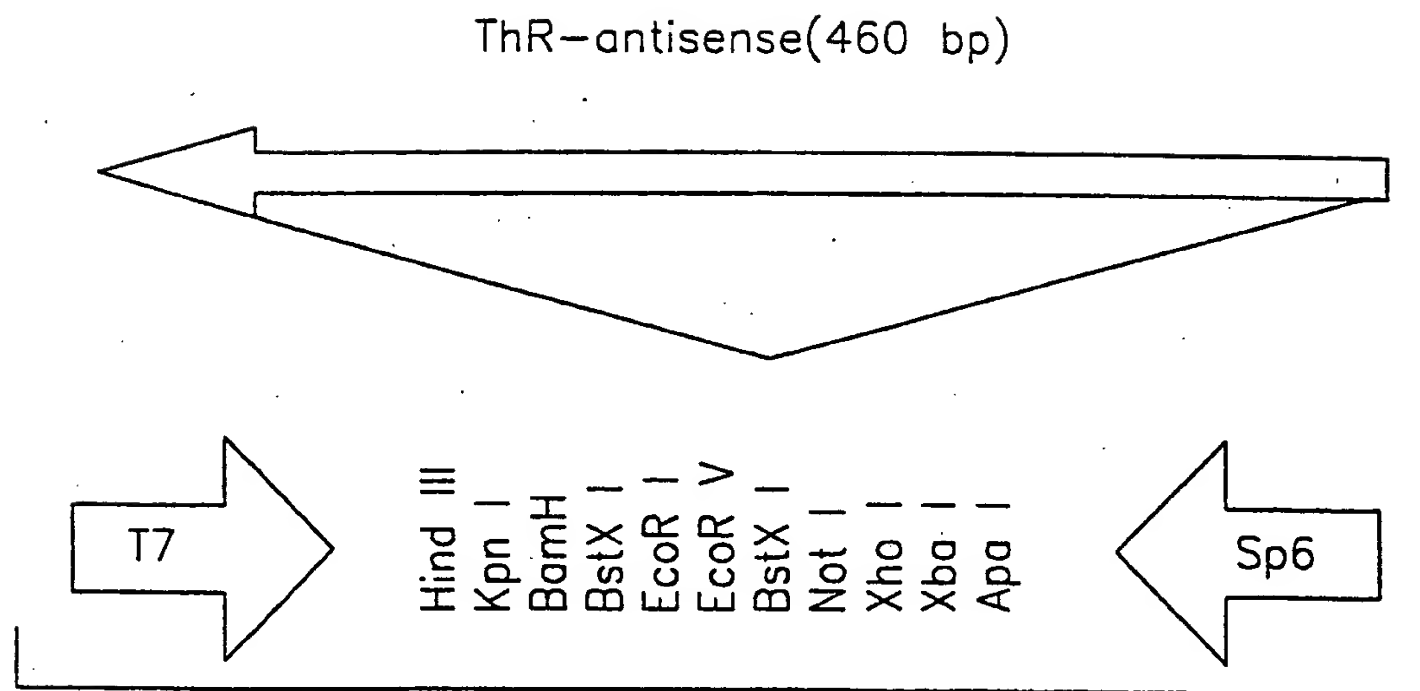


FIG.3

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FIG. 4

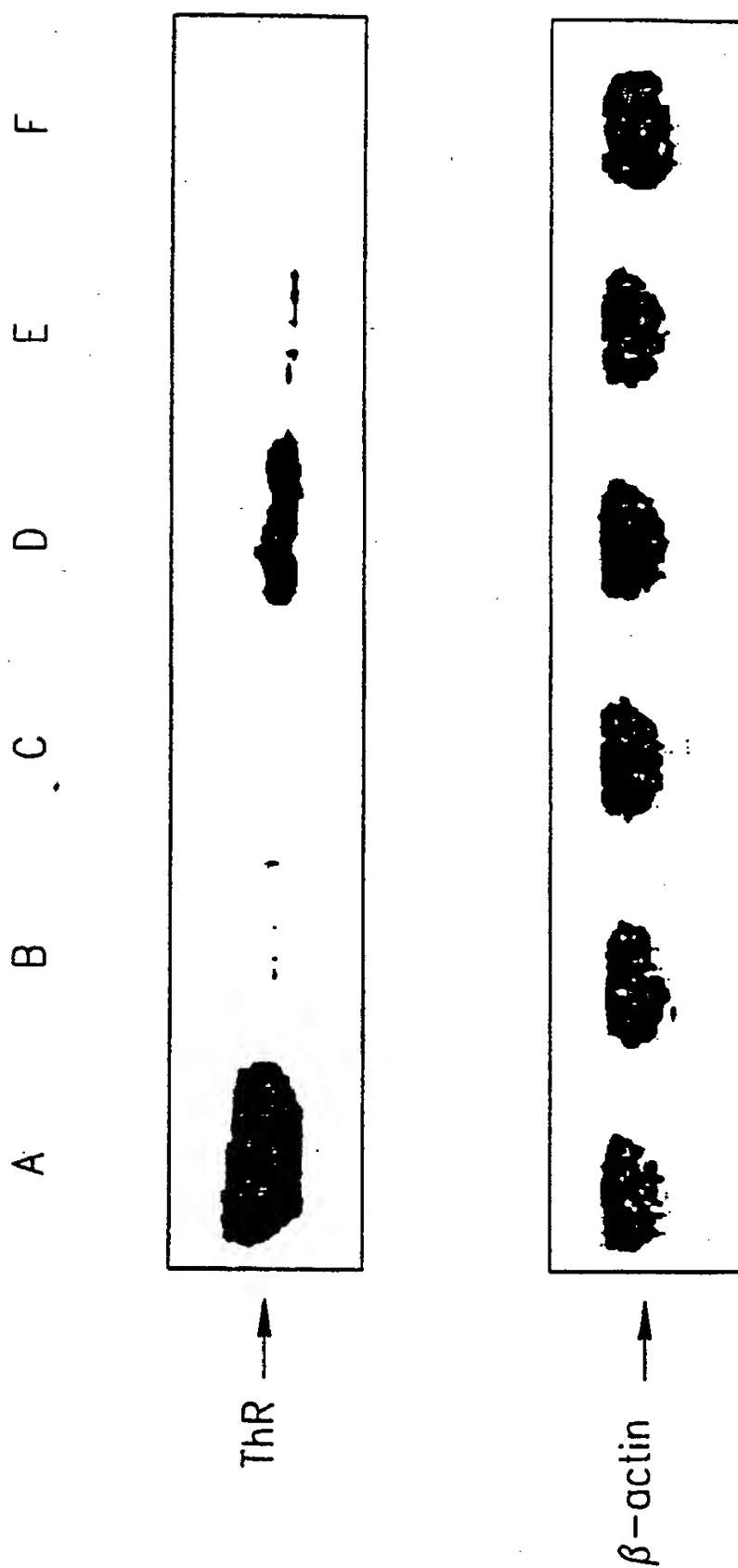


FIG. 4

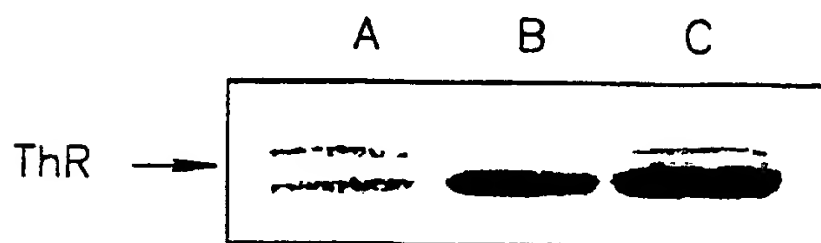
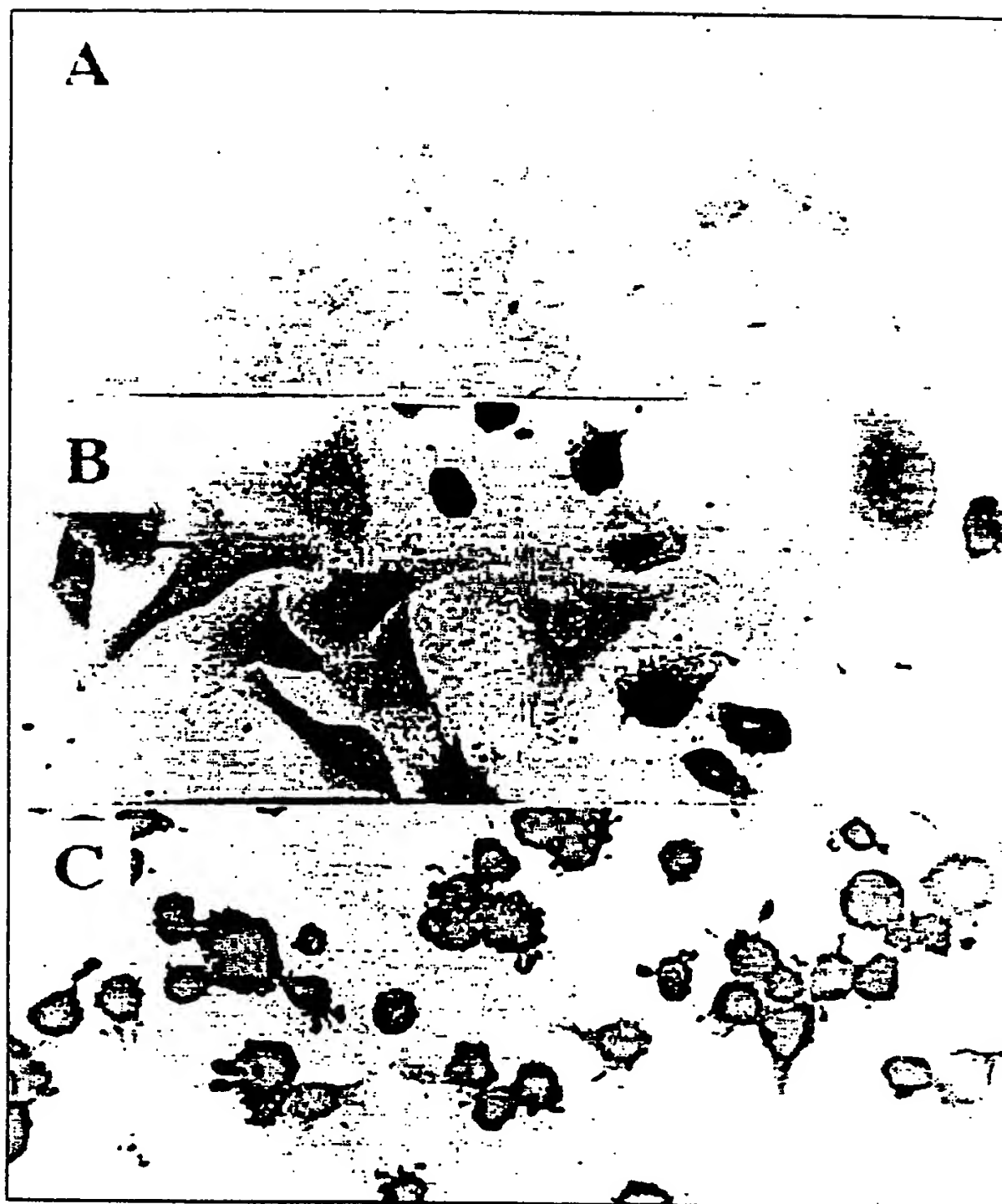


FIG.5

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FIG. 6A

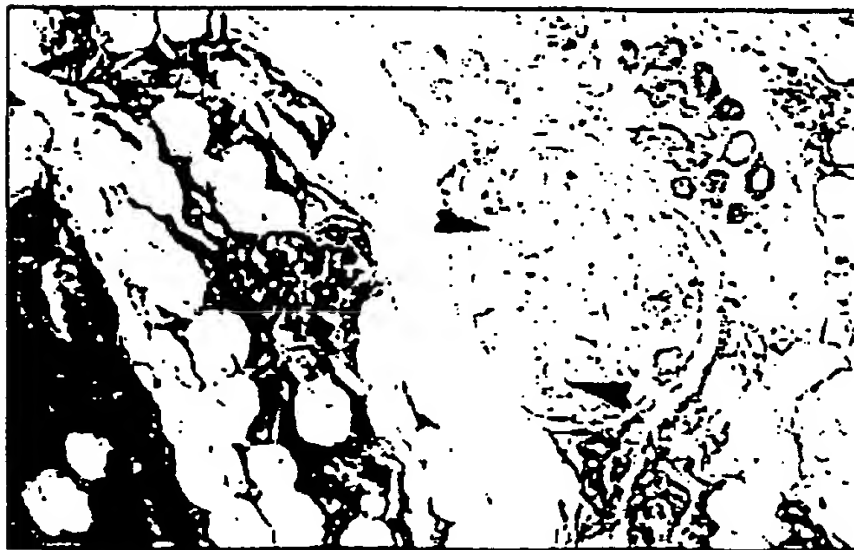


FIG. 6A

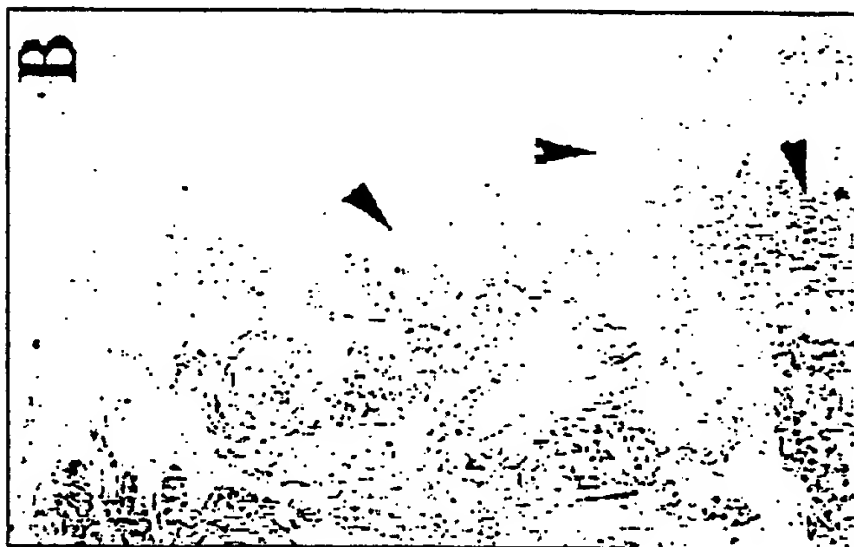


FIG. 6B

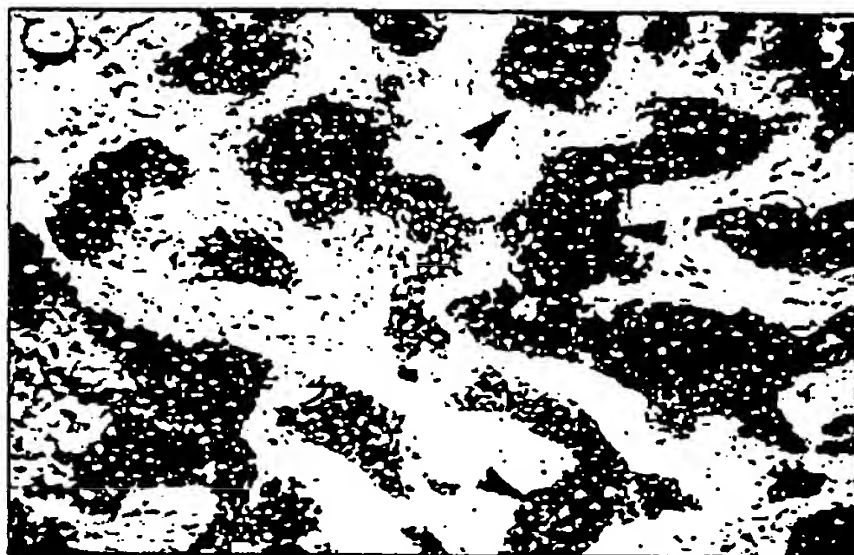


FIG. 6C

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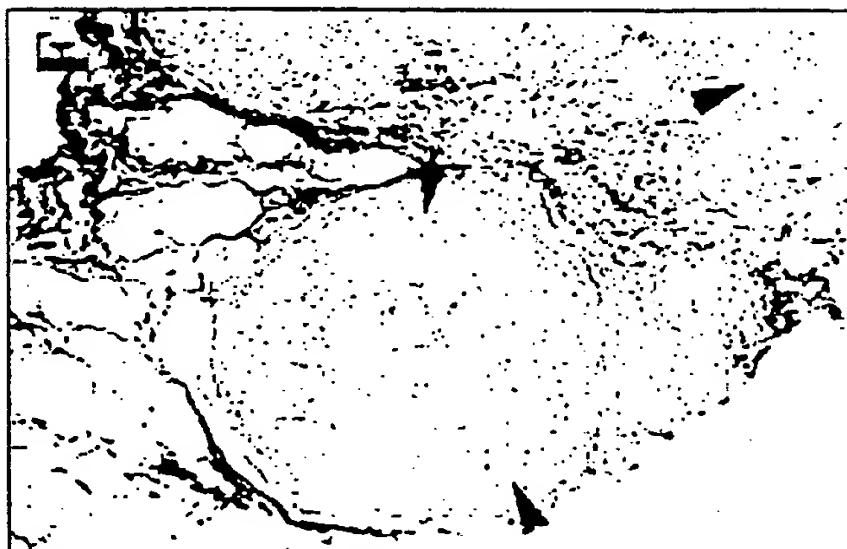


FIG. 6F



FIG. 6E

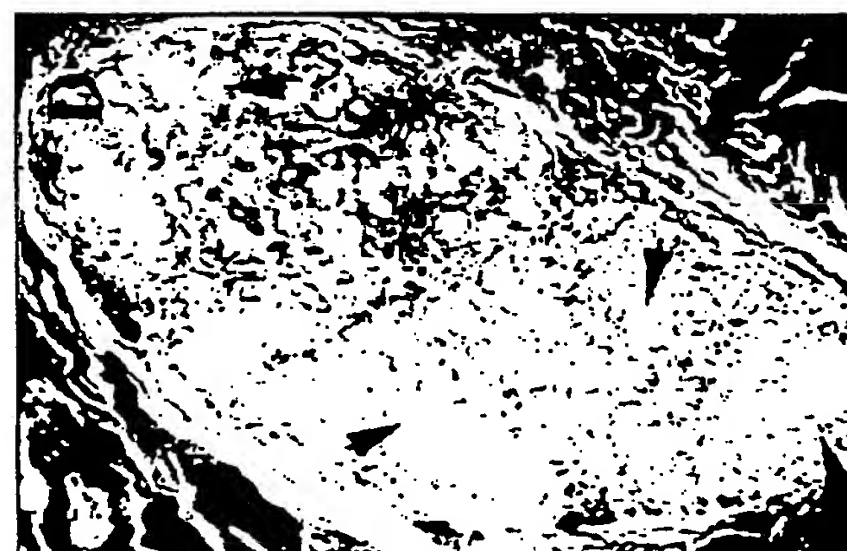


FIG. 6D



FIG. 6I

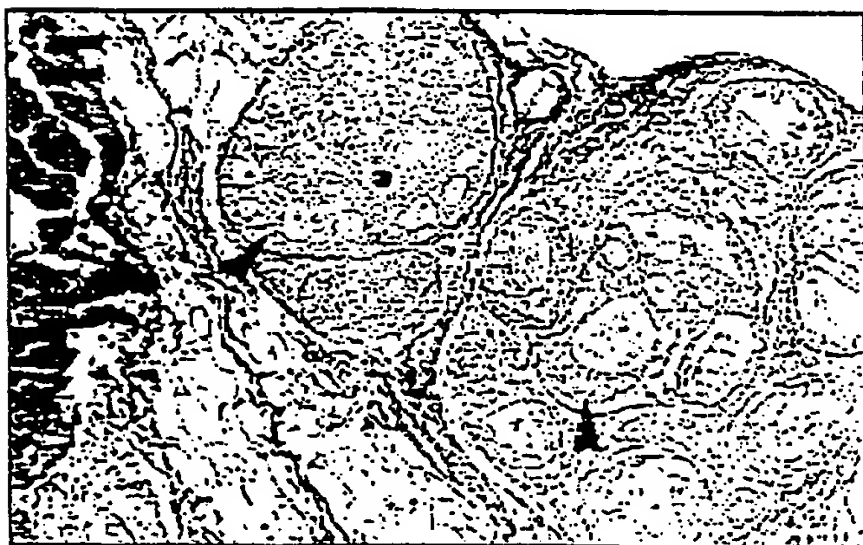


FIG. 6H

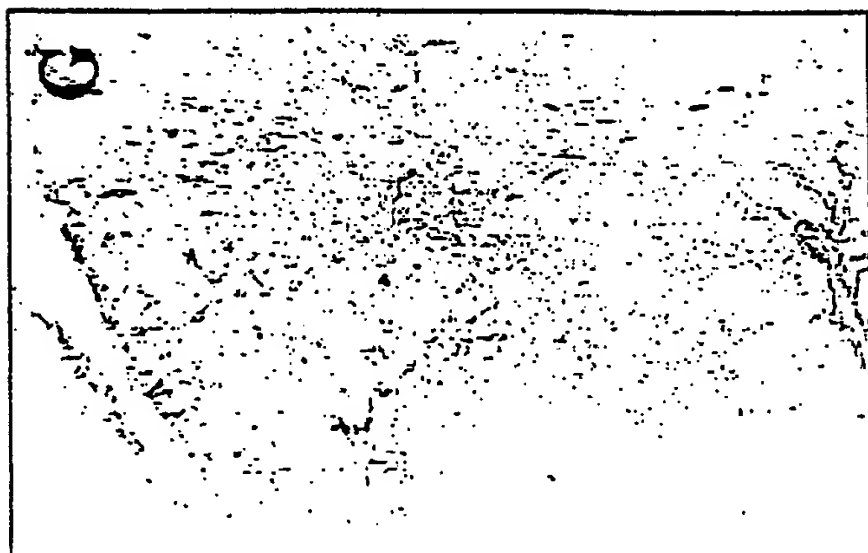


FIG. 6G

FIG. 7

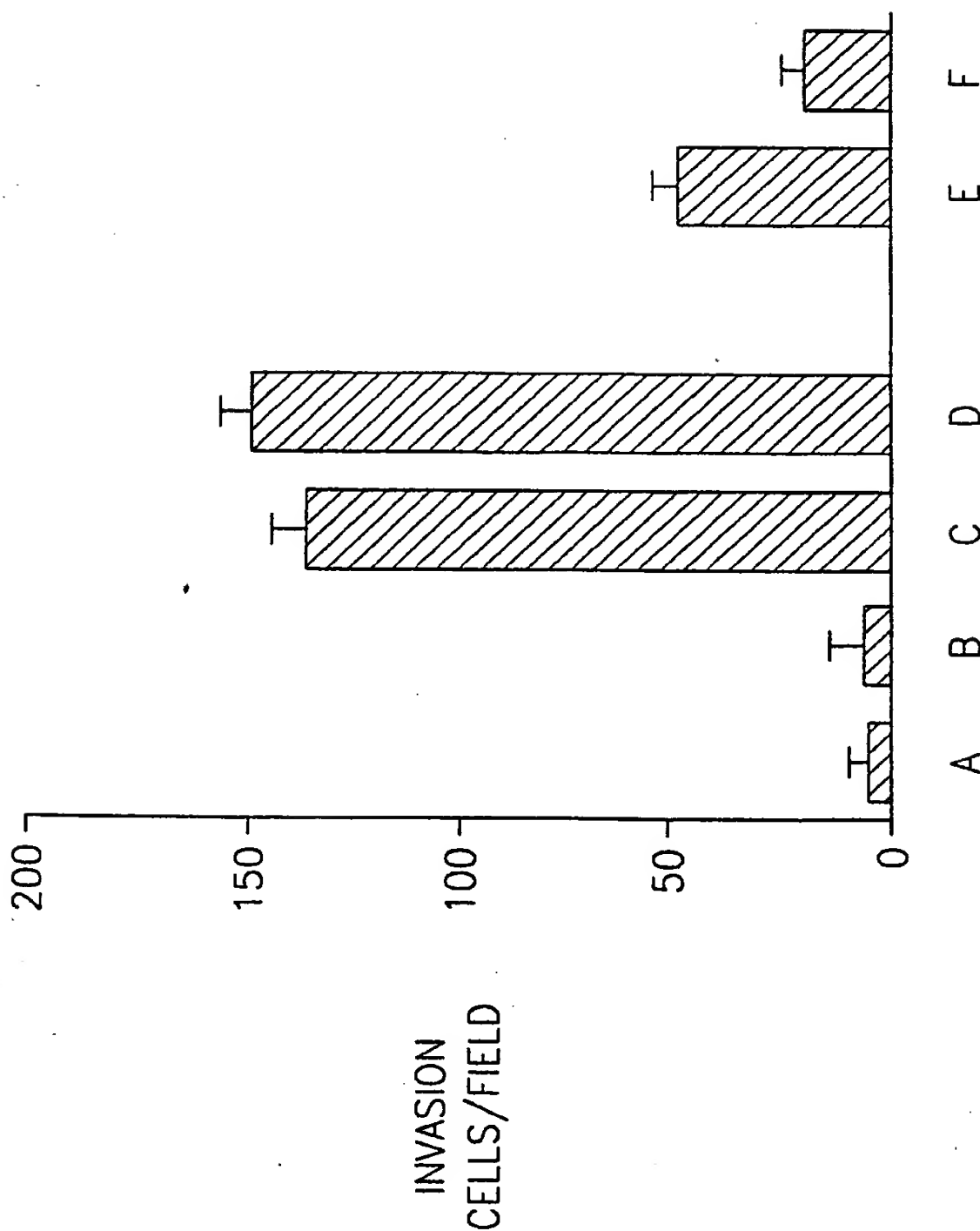


FIG. 7

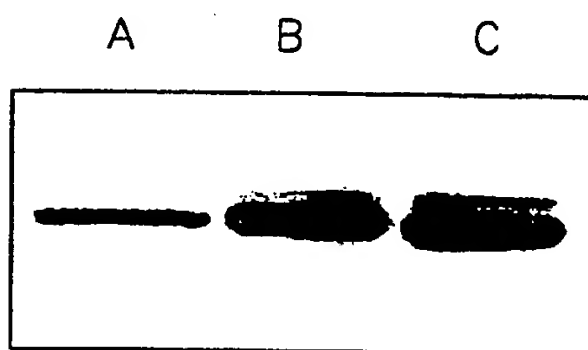
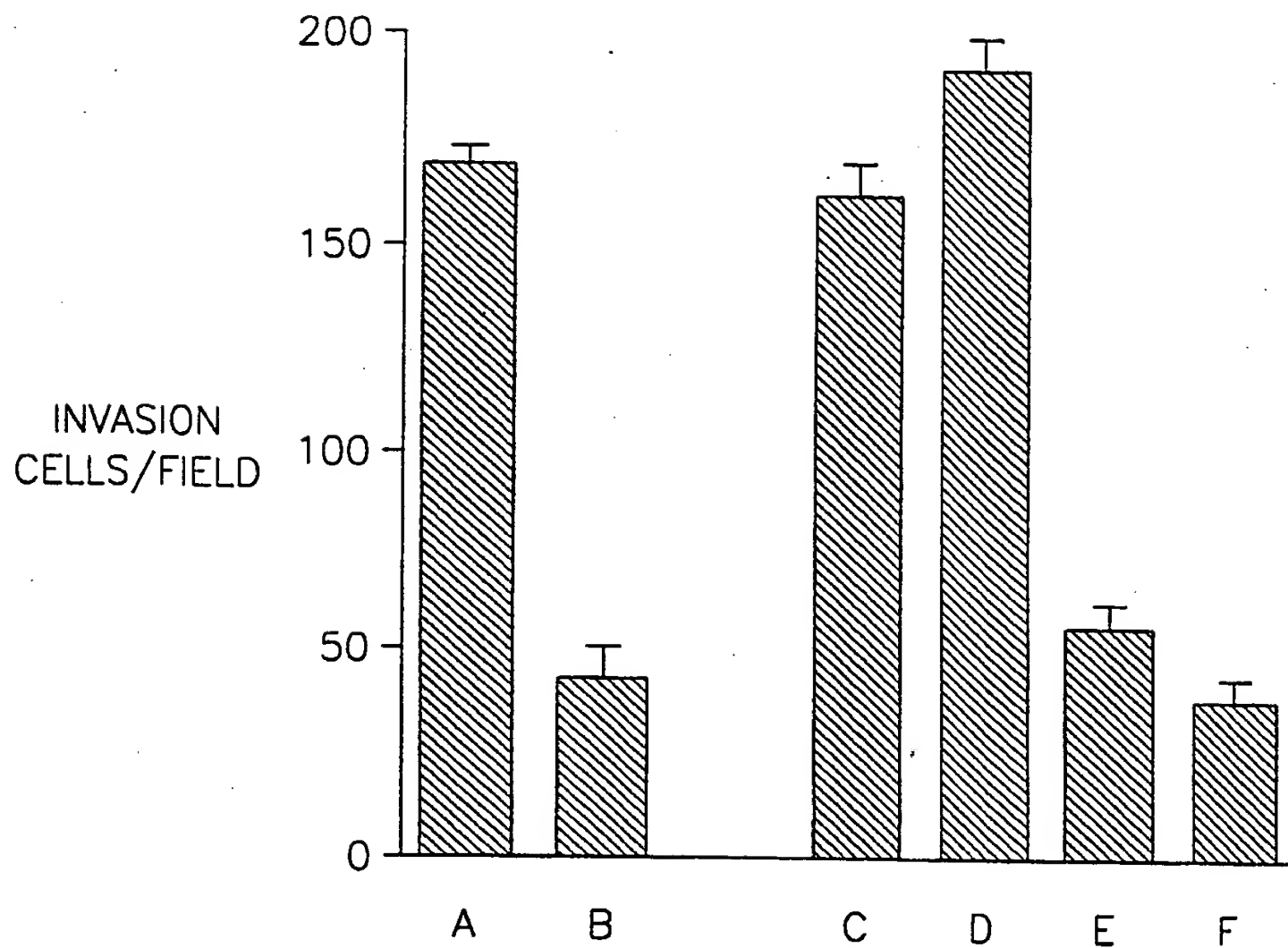


FIG.8

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121 gaagccttat tggtaagggt gatggcacat cccacgtcac tggaaaagga gttacagttg
181 aacagtcctt ttctgtggat gattttcttg gatgtgtcct cactggaaa ctagaccactg
241 tcttccttcc aattgtctac acaatttgtt ttgtggtggg ttgccaagt aacggcatgg
301 ccctgtgggt ctttcttttc cgaactaaga agaagcacc cttgtgtgatt tacatggcca
361 atctggcctt ggctgacctc ctctctgtca tctggttccc cttgaagatt gcctatcaca
421 tacatggcaa caactggatt tatggggaag ctctttgtaa tgtgcttatt ggctttttct
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781 tcctcacagc ctctgcctat gtgctgatga tcagaatgct tgcactgtc gccatggatg
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1081 agaacgctct cctttgccga agtgtccgca ctgtaaaagca gatgcaagta tccctcacct
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1261 atgttatgag gacgtgtctg ttatttcct

Fig. 9

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241 caaagccaac cttaactatt aagagtttta atgggggtcc ccaaaatacc tttgaagaat
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361 ccgaggacag tatttcaact ctccacgtga ataagtctac cataggatac ctgagaagt
421 ccttaagtac ccaagtgata cctgccatct atatcctgct gtttgtggtt ggtgtaccat
481 ccaacatcgt gaccctgtgg aaactctcct taaggaccaa atccatcagt ctggtcatct
541 ttcacacca cctggccatc gcagatctcc ttttctgtgt cacactgcca ttttaagatcg
601 cctaccatct caatggcaac aactgggtat ttggcgaggt catgtgccgg atcaccacgg
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2281 gattcaacca accacagacc caaaacactt gaaaaacctt gtatgagctg aaaacgaaga
2341 gttctatttt tcattactcc ntaataata ntgataataa ataataataa ataaaaaaa
2401 aaaaaaaa

Fig 10

1 ctccacggg ctggctggca agcgccctg gtgggtctgc gggggcagg gacgcctcc
 61 tggttatct ccaccggcg gatctgctcg tcgcctcgg ctccagaagc tggggctcag
 121 ggtccggcga ggcaggaagc ctgaggccac agccagagc agcctgagtg cagtcatgtg
 181 gggcgactg ctctgtggc cctgtgtgt ggggttcagc ctgtctggcg gcaccagac
 241 cccagcgtc tacacgaga gcggagcac cggagggtgt gatgacagca cgccctcaat
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 421 cctctatggg ctggtcctgg tggtggggt gccggccaat gggctggcgc tgtgggtgct
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 541 cctcctgtg gccctggcg tgcccccg gatcgctac cactgctg gccagcgtg
 601 gccctcggg gaggcgct gccgctggc cagggccga ctctatgtc acatgtatgg
 661 ctcatgtct ctgtggccg ccgtcagct ggatcgctac ctggccctgg tgcacctgct
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 841 ctccgatcg gtgctctgcc atgacgcgt gcccttgac gcacaggcct cccactggca
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 961 gtgctacgg gccacctgc acacgctgg gccagcggc cggcgctacg gccacgcgt
 1021 gaggctgacc gcagtgtgtc tggcctccg cgtggccttc ttcgtgcca gcaacctgt
 1081 gctgtgtct cattactcg acccgagcc cagcgccctg ggcaacctct atggtgccta
 1141 cgtgcccagc ctggcgctga gcacctcaa cagtgcgtg gatcccttca tctactacta

Fig. 11a

1201 cgtgtcggcc gagttcaggg acaaggtgcg ggcagggctc ttccaacggt cgccggggga
 1261 caccgtggcc tccaaggcct ctgcggaagg ggcagccgg ggcattggga ccactcctc
 1321 ttgtctccag tgacacaaag tggggaaggc tgtactgggt cgaacagggt ccctccccc
 1381 acttcacgtc ctctcggga cctcagaatg tgacctatt tggaatagg gtgttacaa
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 1561 gaggccaagg cggatggatc acttgagccc aggagttaa caccagcctg agcaacatgg
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 1861 tggctcacgc ctataatctc agcacctcgg gaggccaaga tggaggattg ctgaaagcca
 1921 ggagtttggg accagcctgg gcaacatagg gggatcccat ctctacacac aaaaaattt
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 2041 gggaggatca ctgagccctg ggaggttgtg gttgcagtga gctatgattg taccactgca
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 2161 aagaagacga gagatagtg gtgtgtgtggc tcacaccctg aatcccagca ctttgggaagg
 2221 ccgagggtgg cagatcatct gaggccagga gttaagacc agcctggcta acatggtgaa

Fig. 11a (Cont.)

2281 atcctatctc taccaaaat acaaaaatta gccaggcgtg gtggtgggca cctgtactgg
 2341 ggaggtgccc accagctac tggggaggct gatlacaggag aatcgcttga acctggggagg
 2401 cggagggttc ggtcagctga gatggtgcc ctcactcca gctggggcga aagagcgact
 2461 ctgtctccaa aaaaagaga agaggagagg acacagagac acacagagaa gaaagccatg
 2521 tggcggcaga ggcagagatg ggagtatgc ggacggacac aaactaaggg atgccacgat
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 2761 cagcccagga atctgaaca ggaataaact ctgttctctg ggccctgccca gcatctctgg
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 3061 actctgctcc ccaaaaccca tcatagcac ggctcagcct cctgctatcc cctgactgct
 3121 ggggaccctc gccttccctc ctctcacctg caggctgac cttctttca cttctgtca
 3181 atgtaccag ggataagggt ggacaatggg ggttgggggt ggacagtgtg tgcggggggg
 3241 ttgggtgct gcagacctgg aactccctc tgcaggatg ttggcagccg gttgtaagcc
 3301 ttgcacggga cagaccacac ccaccgcaac ctcatccct cagcactaac cacatccact

Fig. 11a (Cont.)

3361 ctcaaccccg tcccttcgc actgaccaca cccaccccg tggccccgc ccccgcaact
 3421 gaacactccc gccctcaacc cgcaccctc cgcactcacc tccccctgc cgctcgaccc
 3481 cgccctcacc aactgacca cctcaaccc attgcgcca gtccccacca cagtgaccac
 3541 accctcactg gctcggccct gccccagta tactgaccat tcccagcca ctcccttc
 3601 gcacttacca ctccccagc cagccccctc ccgctgacc gctctccag cccgcctcc
 3661 cccgtacagg cagagcgccc gccacctct atgctgcgtt ctctgactt tacgttgccc
 3721 cctcctctgc caagccccc gggagccct cctggcgtc cgagggtggg agtcgggggtg
 3781 tggcaggccg cggctggggg cggcagtggc tccgcgact caccggggc ccgggcagggg
 3841 gcgcgctcca ctctgttga cgcgggtccg gcgcacagtt ccgggcgag tggcgtgtgc
 3901 gtgctgacgt tgtagaagcg agtggcctcg aaggctacgg gacgagggtg gcgggtgacc
 3961 aagtcaggc gcgacgggtc agggaccggg ccgggcccgg ggtgcgggcg cgcgggccta
 4021 ccgggttcgt agtagtcta caggagact ggacgcggc acgtcctgcc caccacgcac
 4081 tcccggagag cacggaaccg cagcacgtc aggcaccggc tgggatctg tggggcagcg
 4141 gcgggcgag gctcgaccg gccaggagg ccgggggcgc tgagctcagg ccagaaactg
 4201 gctgatttca gggataccca ggacgcgtga aacacagaag aaacgtgac ccattttctt
 4261 ttttctttt actttcttt ttttttt ttctgagac agagtctgc gctgttgccc
 4321 aggcctggagt gcagtggcgt gatctggct cactgcaagc tcggcctcct gggttcaaat
 4381 gattctcctg cctcagcctc ccaagtagct gggataacag gcgcccacca ccgacccctg

Fig. 11a (Cont.)

4441 ctaattttt gtatttttga tcaagacgga gtttcacat gttggccagg ctggtctcca
 4501 actcctgccc tcaagtatc cgcctcgtc ccattttta ttcttgggt ccttccatcc
 4561 cactgggaaa acgtctcagg tggcctctga aacaccactc ctttttgtgt gtgtgcacgc
 4621 atggctgagc atgtgtgggt gggagtcagc acattcacga tactgtgcaa tcatcacctc
 4681 tgtctagta caggacgggt tctttctccc ccaaagaaac cccatcgcca tcagcactca
 4741 ctccccactc cccagcccc tggcaaccac aaatcttcc aactctacgg atttgcctgt
 4801 tctgggcatt tcatgtcaat ggaatcatgt actctgtgaa aaaaaaaaaa aaaaaaaaaa
 4861 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa

Fig. 11a (Cont.)

MWGRLLLWPLVLGFSLSGGTQTPSVYDESGSTGGDDSTPSILP
APRGYPGQVCANDSDTLELPDSSRALLLGWVPTRLVPALYGLVLVGLPANGLALWVL
ATQAPRLPSTMLLMNLATADLLALALPPRIAYHLRGQRWPFGEAACRLATAALYGHM
YGSVLLLA AVSLDRYLALVHPLRARALGRRLALGLCMAAWLMAAALALPLTLQRQTF
RLARSDRVLCHDALPLDAQASHWQPAFTCLALLGCFLPLLAMLLCYGATLHTLAASGR
RYGHALRLTAVVLASAVAFFVPSNLLLLHYSDPSPSAWGNLYGAYVPSLALSTLNSC
VDPFIYYVSAEFRDKVRAGLFQRSPGDTVASKASAEGGSRGMGTHSSLLQ

Fig. 11b

FIG. 12A



FIG. 12A



FIG. 12B



FIG. 12C

FIG. 12D 6/9/94/260

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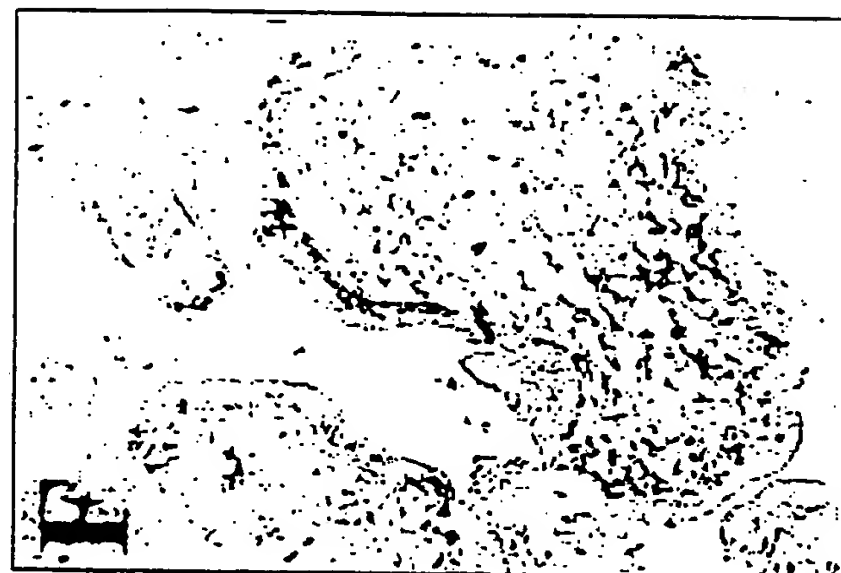


FIG. 12F



FIG. 12E



FIG. 12D

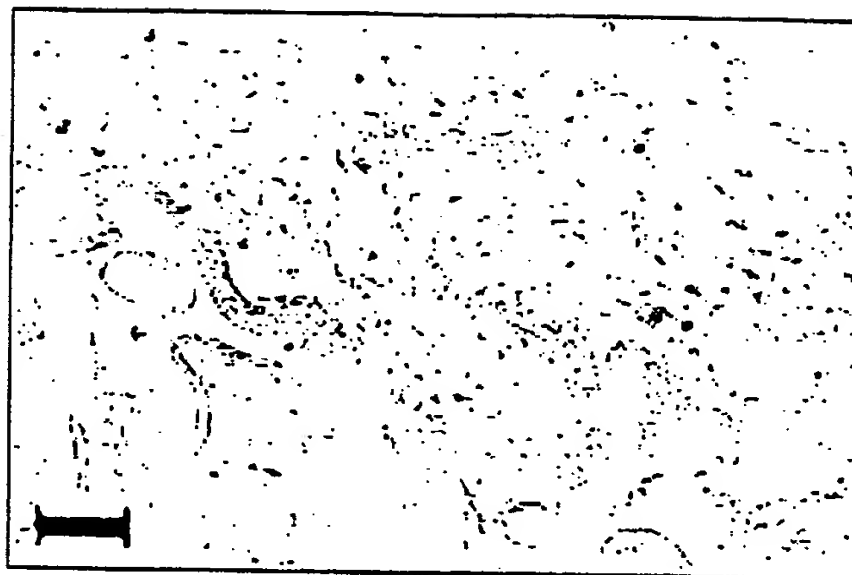


FIG. 12I



FIG. 12H

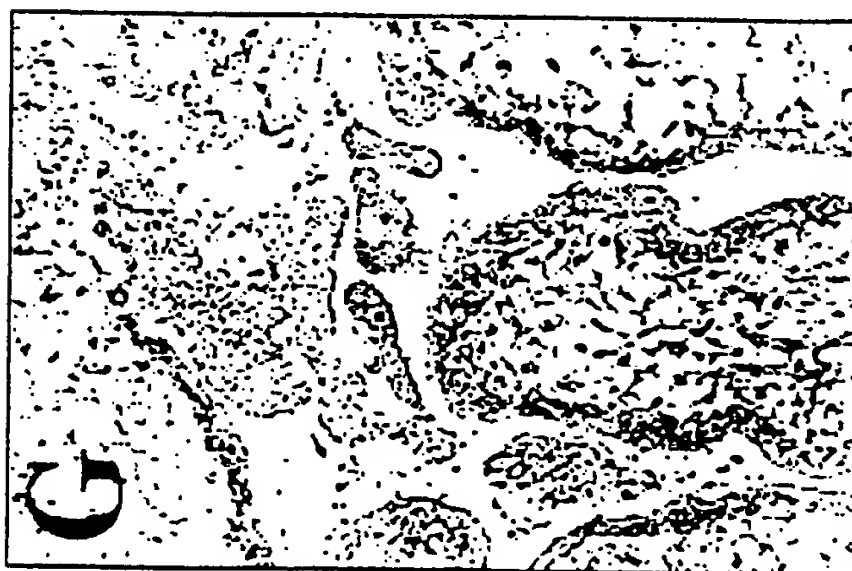


FIG. 12G

[illegible]